

IN THE CLAIMS:

Please cancel Claims 3, 11, 26 and 29 to 32 without prejudice or disclaimer of the subject matter presented therein. Please amend Claims 1, 2, 12, 22, 25, 28 and 33 and add new Claims 34 and 35 as shown below. The claims, as pending in the subject application, read as follows:

1. (Currently Amended) An apparatus ~~adapted~~ for radiographing an object, comprising:

an X-ray radiation unit for radiating X-ray;

a grid arranged in a radiation path;

~~a grid movement controller adapted for controlling a movement of a grid for~~  
changing a movement speed of the grid by changing a turn speed of a motor; and

~~an input unit adapted for inputting method information relating to a~~  
~~radiographic method;~~

~~an imaging controller adapted for determining a target speed of the grid to~~  
~~be used by said grid movement controller, based on the method information input by said~~  
~~input unit; and~~ for controlling the X-ray radiation unit and the grid movement controller,

~~a display unit adapted for displaying information relating to an effective~~  
~~radiation exposure time range corresponding to the target speed~~

wherein the grid movement controller comprises a link mechanism for  
changing turn movement of the motor into straight movement of the grid, and

wherein the imaging controller controls the radiation exposure time of the  
X-ray radiation unit and the turn speed of the motor, relating one with the other.

2. (Currently Amended) The apparatus according to claim 1, further comprising a sensor unit ~~adapted~~ for detecting a radiation image of the object, wherein the imaging controller controls the driving of the sensor unit and controls the grid movement controller so that the grid will reach a predetermined speed at the time the sensor unit starts driving.

3 to 11. (Cancelled)

12. (Currently Amended) A method ~~adapted~~ for radiographing an object, comprising the steps of:

radiating X-ray;

controlling a movement of a grid, with a movement speed of the grid being changed by changing a turning speed of a motor;

inputting method information relating to a radiographic method; and

determining a target speed of the grid to be used in said controlling step, based on the method information input in said inputting step; and the turn speed of the motor in the controlling step and a radiation exposure time in the radiating step, based on the method information input in said inputting step,

wherein in the controlling step, a link mechanism is used to change turn movement of the motor into straight movement of the grid.

displaying information relating to an effective radiation exposure time range corresponding to the target speed.

13. (Previously Presented) The method according to claim 12, further comprising a step of detecting a radiation image of the object.

14. (Previously Presented) The method according to claim 12, wherein the method information includes information relating to at least one of a section of the object to be radiographed and a radiation exposure time.

15 to 21. (Cancelled)

22. (Currently Amended) The method according to claim 12, further comprising a step of measuring or acquiring information relating to an actual radiation exposure time,

wherein the ~~target~~ turn speed to be determined in said determining step is modified based on the information measured or acquired in said measuring or acquiring step.

23 and 24. (Cancelled)

25. (Currently Amended) The apparatus according to ~~claim 1~~ claim 35, wherein said display unit is ~~adapted~~ for displaying a standard radiation exposure time within the ~~effective radiation exposure time~~ range.

26. (Cancelled)

27. (Previously Presented) The apparatus according to claim 25, wherein the standard radiation exposure time is determined by dividing the effective radiation exposure time range by a ratio of m:n, where m and n are natural numbers.

28. (Currently Amended) The apparatus according to claim 25, further comprising a modifying unit ~~adapted~~ for modifying the standard radiation exposure time, wherein said imaging controller is adapted for determining the ~~target~~ turn speed based on the standard radiation exposure time modified by said modifying unit.

29 to 32. (Cancelled)

33. (Currently Amended) A computer-readable storage medium storing a software program which makes a computer execute a process according to a method ~~adapted~~ for radiographing an object, the method comprising the steps of:

radiating X-ray;

controlling a movement of a grid, with a movement speed of the grid being changed by changing a turning speed of a motor;

inputting method information relating to a radiographic method; and

determining a ~~target speed of the grid to be used in said controlling step,~~ based on the method information input in said inputting step; and the turn speed of the motor in the controlling step and a radiation exposure time in the radiating step, based on the method information input in said inputting step.

wherein in the controlling step, a link mechanism is used to change turn movement of the motor into straight movement of the grid.

~~displaying information relating to an effective radiation exposure time range corresponding to the target speed.~~

34. (New) The apparatus according to claim 2, wherein the imaging controller controls the time when the X-ray radiation unit starts radiation, relating it with the time when the sensor unit starts driving.

35. (New) The apparatus according to claim 1, further comprising:  
a display unit for displaying information relating to an effective radiation exposure time range corresponding to the turn speed.